PADELE

Sheet 1

PTO/SB/08A (08-03) Approved for use through 07/31/2006, OMB 0551-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

ork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

tute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

<u>of 12</u>

Complete if Known				
Application Number	10/600,553			
Filing Date	06/20/2003			
First Named Inventor	Robert E. Stewart			
Art Unit	3742			
Examiner Name	Fastovsky, Leonid M.			
Attorney Docket Number	LIT-132/000098-199			

U. S. PATENT DOCUMENTS Examiner Publication Date Name of Patentee or Pages, Columns, Lines, Where **Document Number** MM-DD-YYYY Applicant of Cited Document Relevant Passages or Relevant Figures Appear Number-Kind Code^{2 (# known)} ^{US-} 6,389,898 1 05/21/2002 Seidel et al. ^{US-} 4,381,672 2 05/03/1983 O'Connor et al. US-US-US-US-US-US-US-US-US-US: US-US-ŪS-US-US-IIS.

Examiner Cite		Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	٢
LAT	3	EP 0 574 143	12/15/1993	Lucas Industries		
LAF	4	WO 93/05400	03/18/1993	Bei Electronics		
						L
						⊦
						L

			_
Examiner Signature	Lastosky	Date Considered 9/9/05	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.usoto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. *Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete. including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08B (08-03) Approved for use through 07/31/2006, OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE ork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known **Application Number** 10/600,553 Filing Date INFORMATION DISCLOSURE 06/20/2003 First Named Inventor STATEMENT BY APPLICANT Robert E. Stewart **Art Unit** 3742 (Use as many sheets as necessary) **Examiner Name** Fastovsky, Leonid M.

Sheet

of 2

Attorney Docket Number

LIT-132/000098-199

		NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
LAF	5	SATCHELL, D.W. et al., "A Thermally-Excited Silicon Accelerometer", Sensors & Actuators, May 3, 1989, pgs. 241-245, vol. 17, Lausanne, CH		
LMF	6	OTHMAN, M.B. et al., "Electrothermally Excited Silicon Beam Mechanical Resonators", Electronics Letters, July 2, 1987, pgs. 728-730, vol. 23, United Kingdom		

Examiner	1-1	Date	0/0/2-
Signature	Lattorsky	Considered	7/1/03

*EXAMINER: Initial if reference considered, whether or not citation is a conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0851-0031*
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paneounit Reduction Act of 1995, no necessary are required to respond to a collection of information unless it contains a valid CMB control or unless

Substitut	e for form 1449A/PTC)			C mplete if Known
				Application Number	N/A
INFC	PRMATION	DIS	CLOSURE	Filing Date	06/20/2003
STA	STATEMENT BY APPLICANT			First Named Inventor	Stewart
		Group Art Unit	N/A		
	(use as many she	ets es	necessary)	Examiner Name	N/A
Sheet	1	of	2	Attorney Docket Number	LIT-132/000098-199

U.S. PATENT DOCUMENTS						
	0 11-	U.S. Pa	itent Document	Name of Patentee or Applicant	Date of Publication of	Pages, Columns, Lines, Where Relevan
Examiner Initials *	Cite No.1	Number	Kind Code ² (if known)	of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Figures Appear
LMF	A1	6,250,1	158	Stewart	06-26-2001	
		<u> </u>		·		
		<u> </u>				
						<u> </u>
		ļ				
					· · · · · · · · · · · · · · · · · · ·	
		 			<u></u>	
					~	
		<u> </u>				
		 				
		 				
		ļ				
		 				
		<u> </u>		-		
		 				
		ļ	—— <u>—</u>			

	FOREIGN PATENT DOCUMENTS							
	Ciac	For	eign Patent De		Name of Patentee	Date of Publication of	Pages, Columns, Lines,	
Examiner Initials*	Cite No.1	Office ³	Number ⁴	Kind Code ⁵ (if known)	or Applicant of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear	Ta
		-	 					
			 					

	Examiner Signature	Tatorsky	Date Considered	9/9/05
--	-----------------------	----------	--------------------	--------

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

EXAMINER: Initial if reference considered, whether or not citation for conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. ⁶ Applicant is to place a check mark hee if English language Translation is attached.

Sheet

of 2

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Petent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to asspond to a collection of information untess it contains a valid OMB control number

LIT-132/000098-199

Substitute for form 1449A/PTO Complete If Known **Application Number** N/A INFORMATION DISCLOSURE 06/20/2003 Filing Date STATEMENT BY APPLICANT First Named Inventor Stewart **Group Art Unit** N/A (use as many sheets as necessary) N/A **Examiner Name**

Attorney Docket Number

	OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS							
Examiner Initials *	Cite No.1	Include name of the author (In CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²					
Lour	C1	V. Chandresekeren, E. Chow, T. Kenny, T. Nishida, L. Cettefeste, B. Sanker & M. Sheplak; THERMOELASTICALLY ACTUATED ACOUSTIC PROXIMITY SENSOR WITH INTEGRATED THROUGH- WAFER INTERCONNECTS; 08/2002; 6 pgs.; Solid-State Sensor, Actuator and Microsystems Workshop: University of Florida, Gainesville, Fl. 32611-6250						
	_cs	"PIEZOELECTRIC"; http://www.techweb.com/encyclopedia/defineterm?term=piezoelectric; TechEncyclopedia; Computer Language Company, 5521 State Park Road, Point Pleasant, PA 18950; 1 pg.: 07/23/02.						
	C3 \	"dither"; http://www.dictionary.com/search?q=profile; Lexico, LLC; Lexico, LLC, 13428 Maxella Avenue #236, Marina del Rey, CA 90292; 2 pgs.; 07/23/02.						
	C4 V	"ectuate"; http://www.dictionary.com/search?q=profile; Lexico, LLC; Lexico, LLC, 13428 Maxella Avenue #238, Marina del Rey, CA 90292; 1 pg.; 07/23/02.						
	C5	"transverse"; http://www.dictionary.com/search?q=profile; Lexico, LLC; Lexico, LLC, 13428 Maxella Avenue #236, Marina del Rey, CA 90292; 1 pg.; 07/23/02.						
	C8	"electrostatic"; http://www.dictionary.com/search?q=profile; Lexico, LLC; Lexico, LLC, 13428 Maxella Avenue #238, Marina del Rey, CA 90292; 1 pg.; 07/23/02.						
	C7	"Joule heating, Kelvin (k), latent heat, lattice, laws of thermodynamics"; Glossary; http://www.uni.uiuc.edu/~hchlang/chem/glossary.html; 1 pg.; 07/23/02.						
	Св	"convergence, coriolis force, coulomb, cryostipere, cumulonimbus (Cb)"; Mount Washington Observatory. Glossary of Weather Terms; http://www.mountwashington.org/glossary/gloss.html; 1 pg.; 07/23/02.						
	C9	"efficiency, frequency, hydrophone, hydrophone directivity, kHz (kilchertz), level sensor, main lobe, maximum response axis, omnidirectional, open circuit voltage, piezo-electric ceramic, pinger, projector, proximity sensor, receiver, resonant frequency, ringing, side lobe"; ITC Glossary of Transducer Terms; http://www.itc-transducers.com/168-0008.htm; 1 pg.; 07/23/02.						
	C10	"thermodynamcis, thermoelastic, thiol, tight-receptor structures, transition state, transition state theory"; Glossary T; http://www.foresight.org/Nanosystems/glossary/glossary_Lhtml; 1 pg.; 07/23/02.						
LME	C11	"nodal point, oscilation"; http://www.dictionary.reference.com/search?q=nodal%20point and http://www.dictionary.reference.com/search?q=oscillation; Lexico, LLC; Lexico, LLC, 13428 Maxella Avenue #238, Marina del Rey, CA 90292; 4 pgs.; 04/14/03.						

Examiner Signature	Startorsky	Date Considered	9/9/05

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.